

IN THE CLAIMS

1. (previously presented) A method of transmitting data from a transmission apparatus to one of a plurality of receiving terminals, comprising:

communicating between said one receiving terminal and the transmission apparatus via an Internet system, said one receiving terminal being operable to receive a digital broadcasting signal;

receiving authentication data associated with said one receiving terminal;

authenticating said authentication data;

transmitting unique terminal information identifying said one receiving terminal as a destination of transmission and an update program to change the processing of said one receiving terminal, said unique terminal identification information being selected in a manner unrelated to said authentication data, and said transmitting step including converting said unique terminal information into converted unique terminal information comprising a key ID and transmitting said converted unique terminal information to said one receiving terminal;

at said one receiving terminal comparing the transmitted key ID to an assigned key ID generated at the receiving terminal to determine whether the transmitted key ID and the assigned key ID are identical; and

upon determining that the transmitted key ID and the assigned key ID are identical:

updating the processing of said one receiving terminal, said updating step including receiving at said one receiving terminal said unique terminal information and said update program;

returning said converted unique terminal information comprising a key ID to said unique terminal

information;

storing said unique terminal information and said update program in a storage location after said returning step;

transmitting from said one receiving terminal to said transmission apparatus a transfer request based on said update program and said unique terminal information; and

supplying data responsive to said transfer request from said transmission apparatus to said one receiving terminal based on said unique terminal information.

2-5. (canceled)

6. (previously presented) The data transmitting method according to claim 1, wherein said supplying step includes supplying said data from said transmission apparatus to said one receiving terminal via a communication satellite based on said unique terminal information.

7. (previously presented) The data transmitting method according to claim 1, wherein said supplying step includes supplying said data using an Internet connection from said transmission apparatus to said one receiving terminal based on said unique terminal information.

8. (previously presented) The data transmitting method according to claim 1, wherein said supplying step includes supplying said data from said transmission apparatus to said one receiving terminal through a terrestrial circuit based on said unique terminal information.

9. (previously presented) The data transmitting method according to claim 1, wherein said data supplied by said transmission apparatus is displayed on a display apparatus of

said one receiving terminal based on said unique terminal information.

10. (previously presented) The data transmitting method according to claim 1, wherein said unique terminal information corresponds to a unique physical address assigned to said one receiving terminal.

11. (previously presented) A system for transmitting data comprising:

a plurality of receiving terminals; and

a transmission apparatus operable to receive authentication data associated with one of said plurality of receiving terminals, to authenticate said authentication data, and to transmit unique terminal information identifying said one receiving terminal as a destination of transmission and an update program to change the processing of said one receiving terminal;

said one receiving terminal being operable to output said authentication data, to receive said unique terminal information and said update program, to communicate with said transmission apparatus via an Internet system, and to receive a digital broadcasting signal, and said one receiving terminal including a specified storage location operable to store said unique terminal information and said update program to update said processing;

wherein said unique terminal identification information is selected in a manner unrelated to said authentication data, said transmission apparatus transmits said unique terminal information converted into a key ID to said one receiving terminal, and said one receiving terminal compares the transmitted key ID to an assigned key ID generated at the receiving terminal to determine whether the transmitted key ID

and the assigned key ID are identical, and upon determining that the transmitted key ID and the assigned key ID are identical, said one receiving terminal converts said converted unique terminal information back to said unique terminal information and then stores said unique terminal information in said storage location; and

wherein said one receiving terminal transmits to said transmission apparatus a transfer request based on said update program and said unique terminal information and said transmission apparatus supplies data responsive to said transfer request to said one receiving terminal based on said unique terminal information.

12-15. (canceled)

16. (previously presented) The data transmitting system according to claim 11, wherein said transmission apparatus supplies said data to said one receiving terminal via a communication satellite based on said unique terminal information.

17. (previously presented) The data transmitting system according to claim 11, wherein said transmission apparatus supplies said data using an Internet connection to said one receiving terminal based on said unique terminal information.

18. (previously presented) The data transmitting system according to claim 11, wherein said transmission apparatus supplies said data to said one receiving terminal through a terrestrial circuit based on said unique terminal information.

19. (previously presented) The data transmitting system according to claim 11, wherein data supplied from said

transmission apparatus is displayed on a display apparatus of said one receiving terminal based on said unique terminal information.

20. (previously presented) The data transmitting system according to claim 11, wherein said unique terminal information corresponds to a unique physical address assigned to said one receiving terminal.

21. (previously presented) A receiving system for receiving data transmitted from a transmission apparatus, comprising:

- a plurality of receiving terminals, one of said plurality of receiving terminals being operable to communicate with the transmission apparatus via an Internet system, to receive a digital broadcasting signal, to output authentication data associated with said one receiving terminal, and, upon authentication of said authentication data by said transmission apparatus, to receive unique terminal information identifying said one receiving terminal as a destination of transmission and an update program for changing the processing of said one receiving terminal;

- a storage location operable to store said unique terminal information and said update program received by said receiving terminal;

- a transfer request generated based on said update program and transmitted to the transmission apparatus along with said unique terminal information; and

- data responsive to said transfer request supplied by the transmission apparatus to said one receiving terminal based on said unique terminal information;

- wherein said unique terminal information is selected in a manner unrelated to said authentication data, and converted

unique terminal information is obtained by converting said unique terminal information into a key ID; and

wherein said one receiving terminal compares the received key ID to an assigned key ID generated at the receiving terminal to determine whether the received key ID and the assigned key ID are identical, and upon determining that the received key ID and the assigned key ID are identical, said one receiving terminal is operable to store said unique terminal information and said update program and to generate said transfer request.

22-25. (canceled)

26. (previously presented) The receiving system according to claim 21, wherein said data is transmitted via a communication satellite based on said unique terminal information.

27. (previously presented) The receiving system according to claim 21, wherein said data is transmitted using an Internet connection based on said unique terminal information.

28. (previously presented) The receiving system according to claim 21, wherein said data is transmitted through a terrestrial circuit based on said unique terminal information.

29. (previously presented) The receiving system according to claim 21, wherein said data transmitted from the transmission apparatus is displayed on a display based on said unique terminal information.

30. (previously presented) The receiving terminal according to claim 21, wherein said unique terminal information

is a unique physical address corresponding to said receiving terminal, and is fixedly assigned to said receiving terminal.

31. (previously presented) A method of receiving data transmitted from a transmission apparatus to one of a plurality of receiving terminals, comprising:

communicating between said one receiving terminal and the transmission apparatus via an Internet system, said one receiving terminal being operable to receive a digital broadcasting signal;

receiving unique terminal information identifying said one receiving terminal as a destination of transmission and an update program for changing the processing of said one receiving terminal, said unique terminal identification information being selected in a manner unrelated to authentication data associated with said one receiving terminal;

converting said unique terminal information into a key ID;

at said one receiving terminal comparing a received key ID directly associated with said received unique terminal information to an assigned key ID generated at the receiving terminal to determine whether the received key ID and the assigned key ID are identical; and

upon determining that the transmitted key ID and the assigned key ID are identical:

storing said unique terminal information and said update program received by said one receiving terminal in a storage location;

transmitting said unique terminal information and a transfer request based on said update program from said one receiving terminal to said transmission apparatus; and

receiving data transmitted from said transmission apparatus in response to said transfer request based on said

unique terminal information.

32-35. (canceled)

36. (previously presented) The data receiving method according to claim 31, wherein said data is transmitted from said transmission apparatus via a communication satellite based on said unique terminal information.

37. (previously presented) The data receiving method according to claim 31, wherein said data is transmitted from said transmission apparatus using an Internet connection based on said unique terminal information.

38. (previously presented) The data receiving method according to claim 31, wherein said data is transmitted from said transmission apparatus through a terrestrial circuit based on said unique terminal information.

39. (previously presented) The data receiving method according to claim 31, wherein said data transmitted from said transmission apparatus is displayed on a display based on said unique terminal information.

40. (previously presented) The data receiving method according to claim 31, wherein said unique terminal information is a unique physical address corresponding to said one receiving terminal.

41. (previously presented) The data transmitting method according to claim 1, wherein said unique terminal identification information comprises a MAC address of said one receiving terminal.



42. (previously presented) The data transmitting system according to claim 11, wherein said unique terminal identification information comprises a MAC address of said one receiving terminal.

43. (previously presented) The receiving system according to claim 21, wherein said unique terminal information comprises a MAC address of said one receiving terminal.

44. (previously presented) The data receiving method according to claim 31, wherein said unique terminal information comprises a MAC address of said one receiving terminal.

45-46. (cancelled)